



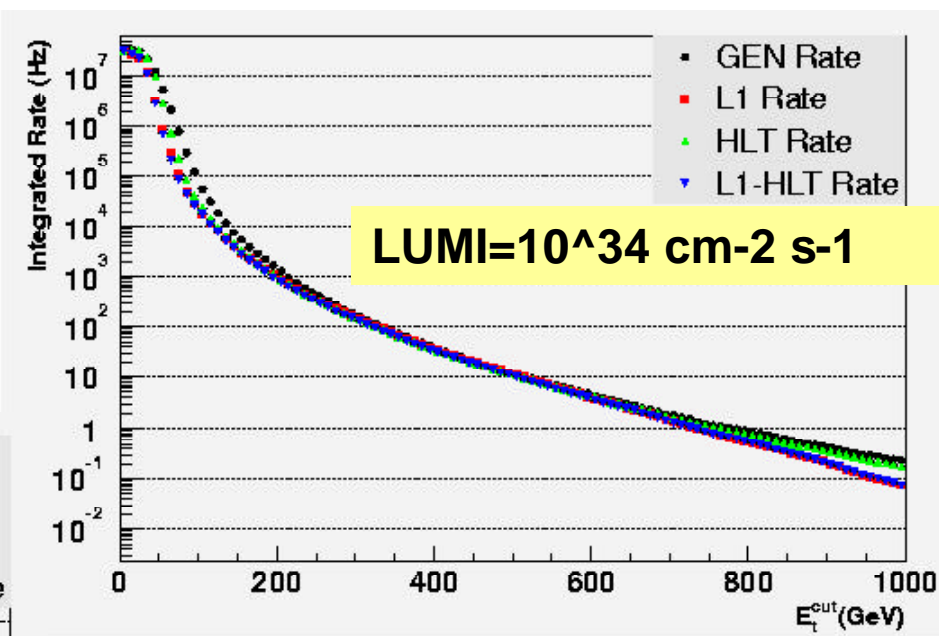
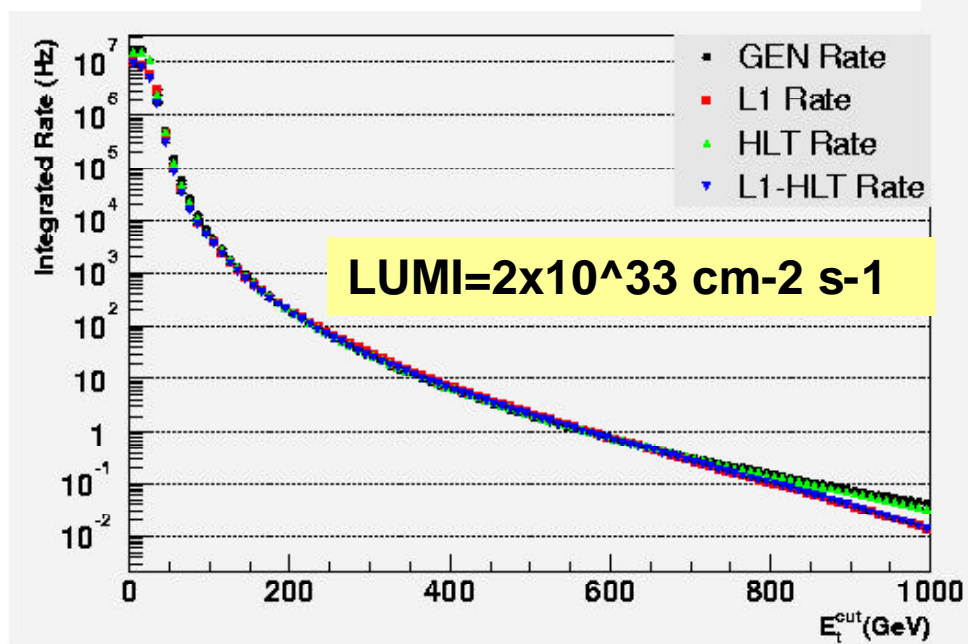
(SHORT) UPDATE ON JETS

Giacomo BRUNO

CERN-EP Division



Generated, L1 and HLT single jet rates



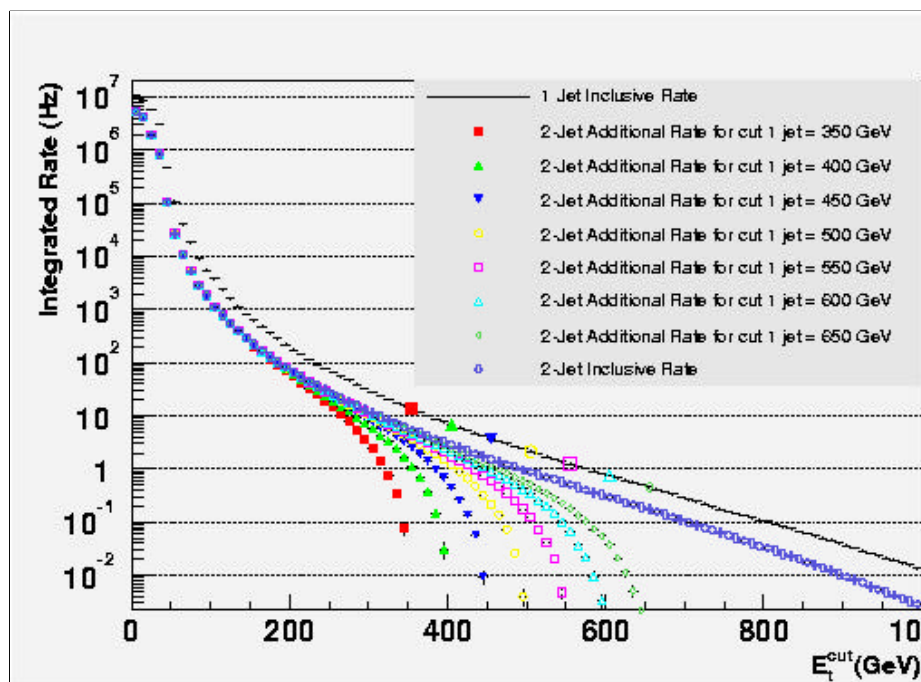


L1 vs HLT rates: single and di-jet

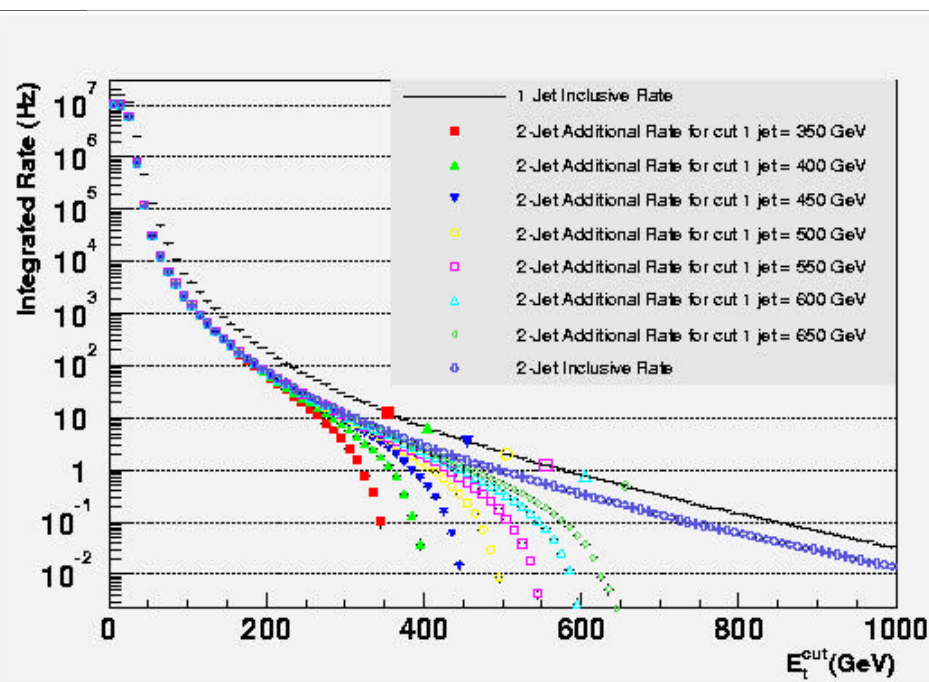
The HLT rate is higher above 800 GeV

LUMI= $2 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$

L1 Nominal thresholds



HLT Nominal thresholds





“95 % eff” Rate

DEFINITION

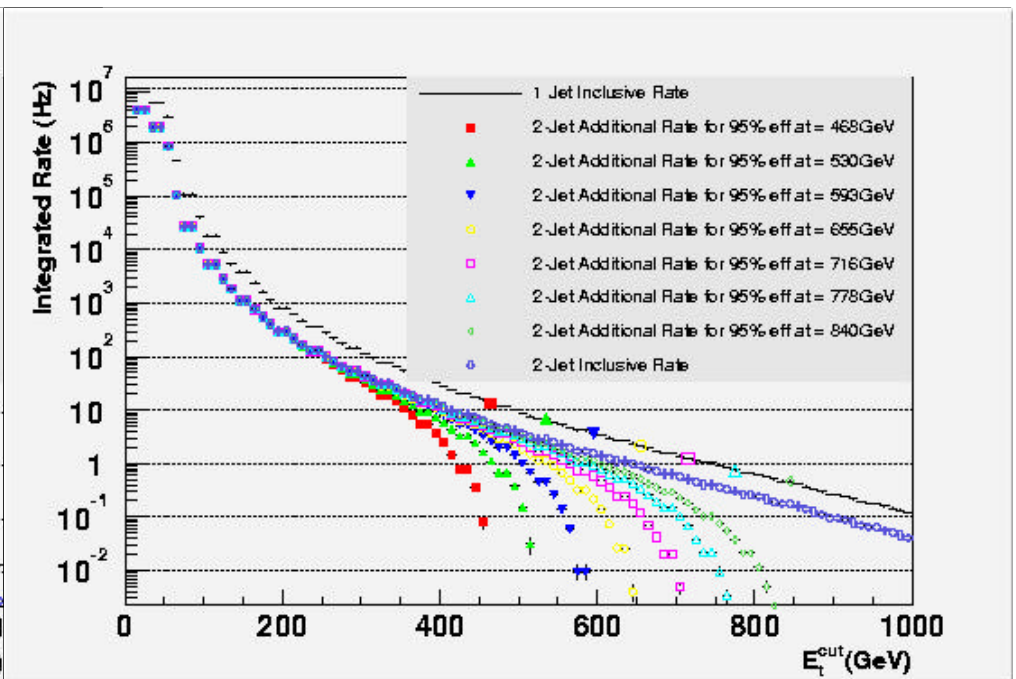
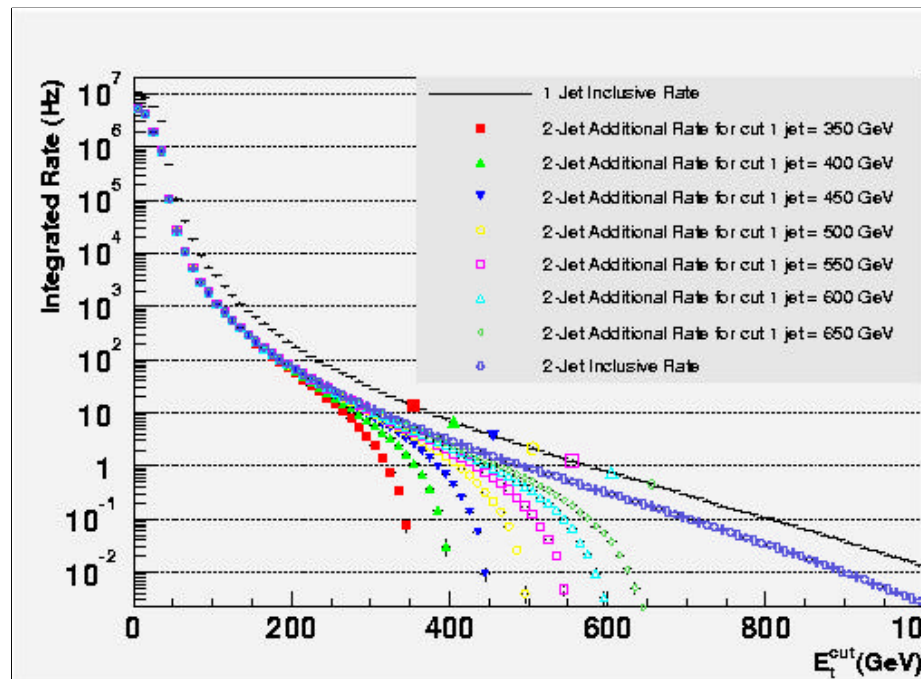
The “95% eff rate” at E is equal to the “nominal threshold rate” at the E_0 value such that 95% of a gaussian distribution ($\langle E \rangle = E$; $s = s(E)$) is at the right of E_0 .

$$s(E) = A \sqrt{E} + B E$$

$$\text{LUMI} = 2 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$$

L1 Nominal thresholds

L1 95% eff. thresholds



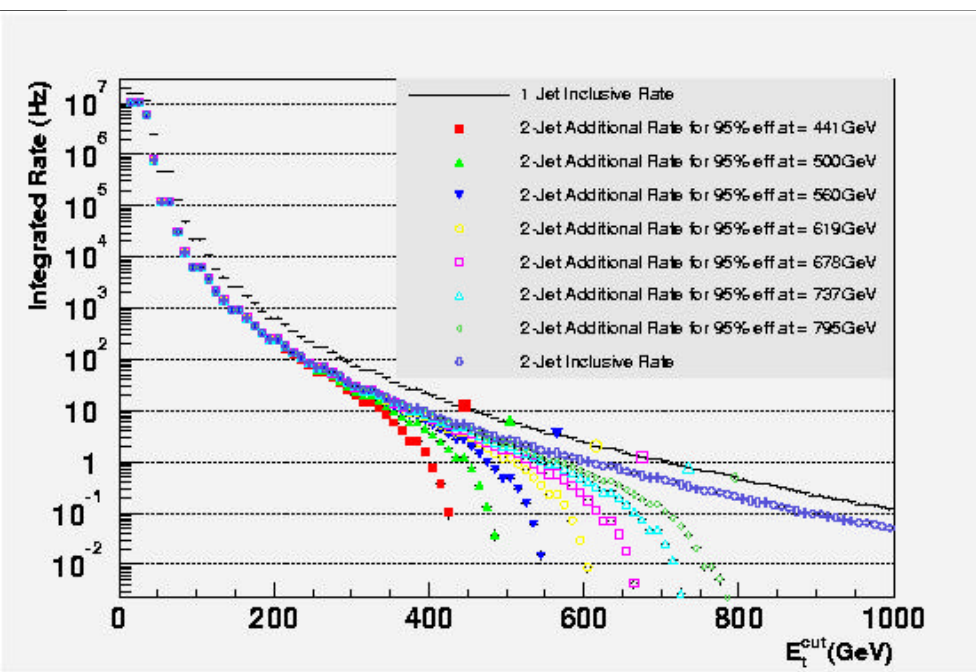
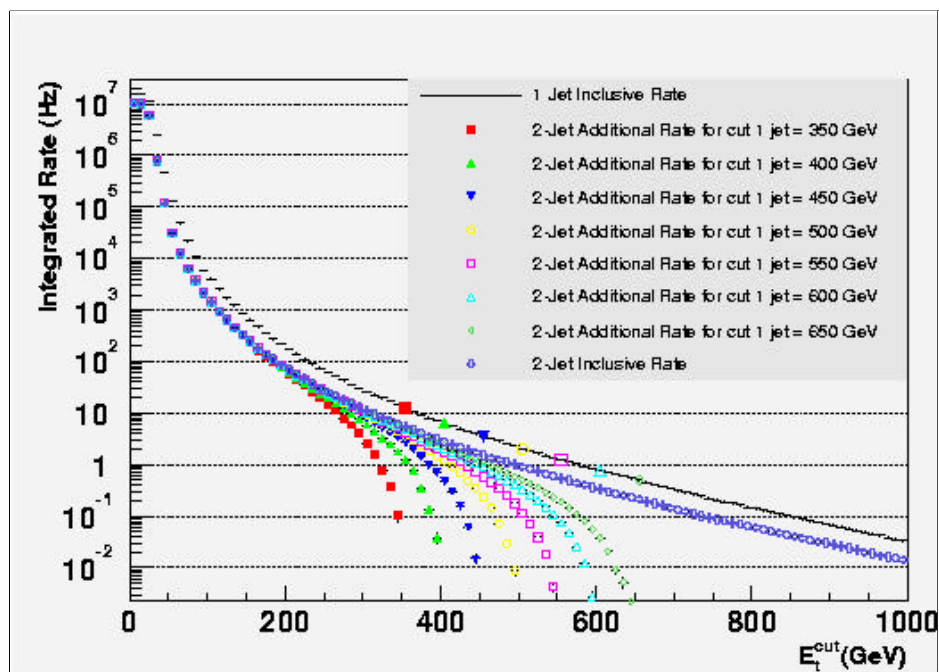


HLT rates: Nominal vs “95 % eff” scale

LUMI=2x10³³ cm⁻² s⁻¹

HLT Nominal thresholds

HLT 95% eff. thresholds

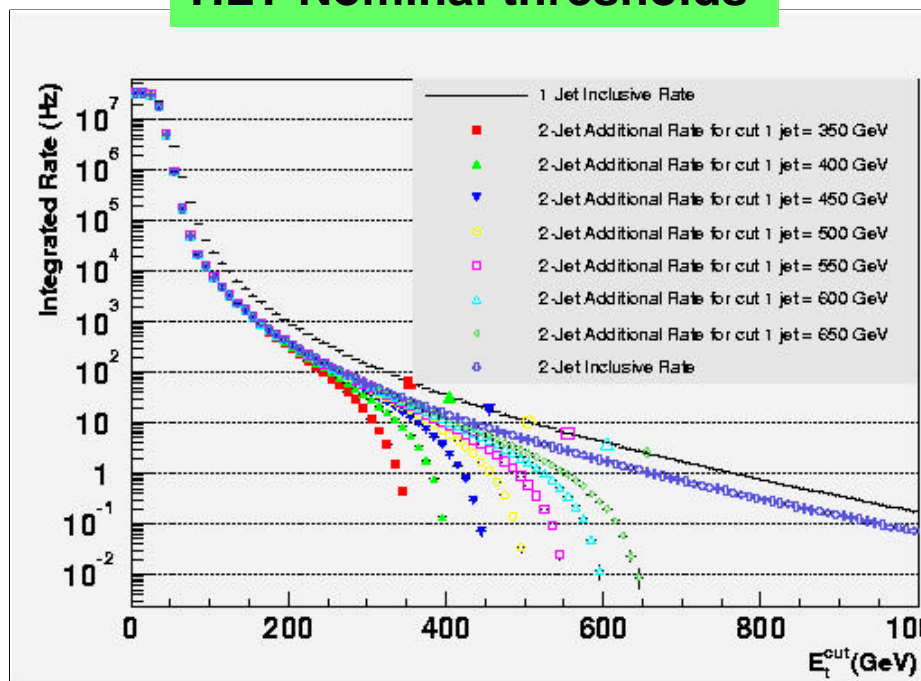




HLT rates: Nominal vs “95 % eff” scale

LUMI=10³⁴ cm⁻² s⁻¹

HLT Nominal thresholds



HLT 95% eff. thresholds

